

## **Q - OIL AND GAS WELLS**

The following map was obtained from the Michigan Department of Natural Resources (DNR) web site. The map, entitled "Mineral Lease Information and DNR Ownership", shows information such as, lease classification, oil and gas well location, directional lines, and other associated information. Tracking where wells are located and the types of wells they are can help in identifying proper procedures should an incident occur.

# MINERAL LEASE INFORMATION AND DNR OWNERSHIP

Macomb County

Map Locator



## LEGEND

**LEASE CLASSIFICATION RECOMMENDATION**

- Development
- Development with Restrictions
- Non-Development
- Non-Leasable
- Mixed Classification

**LEASE NUMBER**

- 12345 Development Lease
- R12345 Development with Restrictions Lease
- N12345 Non-Development Lease
- S12345 Gas Storage Lease
- M12345 Metallic Mineral Lease
- Z12345 Nonmetallic Mineral Lease

**OIL AND GAS WELLS**

- Oil
- Natural Gas
- Gas Condensate
- Gas Injection
- Gas Storage
- Liquid Petroleum Gas Storage
- Gas Production and Brine Disposal
- Brine Disposal
- Dry Hole
- Water Injection
- Other Injection
- Observation
- Other
- Permitted Well Location

**PLUGGED WELLS**

- Plugged Well Symbol

**SURFACE LOCATIONS**

- Surface of Directional Well

**DIRECTIONAL LINES**

- Directional
- Horizontal (90 deg.)

**WELL PERMIT NUMBER**

- 45123 Permit Number

**DNR OWNERSHIP**

- Surface
- Mineral and Surface
- Minerals
- Mixed Ownership
- Other Rights

- Reserved Minerals

- 40.00 Acres of Surface Ownership

- 40.00 Acres of Mineral and Surface Ownership

- 40.00 Acres of Mineral Ownership

ROW DNR has a Right of Way and/or an acquired easement(s) from private landowner within the quarter-quarter section

**TRANSPORTATION**

- Two-Track and Seasonal Roads

- Highways

- Residential Roads

- Railroads

- Paved Airports

- Unpaved Airports

- County Roads

**UTILITY**

- Pipelines and Transmission Lines

- Electric Transmission Lines

**POLITICAL**

- Township Boundaries

- Great Lakes Shoreline

- County Boundary

- Section Lines

**HYDROLOGY**

- Lakes and Ponds

- Rivers and Streams

- Drains and Intermittent Streams



0 2 4 Miles

### MAP INFORMATION

Oil and gas well information obtained from drilling records on file at the Michigan Department of Environmental and Quality (MDHEQ), Geological and Land Management Division.

Additional information on oil and gas wells can be obtained by contacting MDHEQ.

Lease classification recommendations are current and may differ from those shown on the map.

Classification designations on individual parcels are reviewed each time lands are offered for lease.

Persons may be offered for lease under different classifications at future sales.

Mineral Lease and DNR Land Ownership information is derived solely from the MDHEQ's Land Ownership Database. Parcel information is compiled to the quarter-quarter section level. Multiple parcels with varying types of ownership within a quarter-quarter section result in the Mixed Ownership Category. Non-ownership rights are classified as Other Rights.

**COMPLETENESS AND QUALITY**

In general, the data does not reflect platted parcels, Private Claims, and parcels within the City of Detroit and the State of Michigan.

The amount of acreage owned within a quarter-quarter section is identified by acreage labels in the upper right corner of each quarter-quarter section.

The quality and completeness of the data is unknown. It is suggested that this data be combined with a second source, such as plat maps, to further clarify ownership.

The information displayed on this map is intended for general planning purposes only. Specific ownership or lease information should be verified by contacting the MDHEQ.

**MICHIGAN DEPARTMENT OF NATURAL RESOURCES**

Forest, Mineral and Fire Management

DATE: 05/04/2004